

IN THE CLAIMS

Complete listing of the claims:

1. (Currently amended) A liquid jetting apparatus comprising:
a head for jetting a liquid of photo curable type which is cured by an irradiation with light;
a light source for irradiating the liquid of photo curable type jetted on an object from the head;
at least one of a temperature sensor for detecting a temperature adjacent to the object, and a humidity sensor for detecting a humidity adjacent to the object; and
a control section for controlling an illumination of light which is radiated from the light source,
wherein the control section controls the illumination on the basis of a result detected by at least one of the temperature sensor and the humidity sensor, the light comprises an ultraviolet ray, and the liquid comprises a cationic polymerization ink containing a cationic polymerizing compound as a composition.

2. (Original) The liquid jetting apparatus of claim 1, wherein the control section stores a relationship between at least one of a temperature and a humidity, and a liquid cure necessary illumination value of light necessary for curing the liquid corresponding to at least one of a humidity and a temperature as a first data table,

the control section specifying the liquid cure necessary illumination value from the first data table on the basis of the result to control the illumination for turning the light source on to make the illumination be not less than the liquid cure necessary illumination value.

3. (Original) The liquid jetting apparatus of claim 2, further comprising an illumination detection sensor for detecting the illumination,

wherein the control section stores a second data table in which an illumination value obtained by irradiation with light radiated from the light source is divided into a plurality of illumination levels, and

the control section rewrites illumination values corresponding to each of the illumination levels in the second data table on the basis of a result detected by the illumination detection sensor, selects an illumination level having an illumination value not less than the liquid cure necessary illumination value, and controls the illumination for turning the light source on to make the illumination be the illumination value of the illumination level selected.

4. (Original) The ink jet recording apparatus of claim 2, wherein the liquid jetting apparatus comprises a plurality of light sources, and

the control section judges whether the liquid cure necessary illumination value exceeds an upper limit of the illumination value obtained by irradiation with light radiated from the light source, and when the control section judges that the liquid cure necessary illumination value specified exceeds the upper limit, the control section turns on the other light source different from the light source to make a total value of illuminations of light from the light source and the other light source exceed the liquid cure necessary illumination value.

5. (Original) The liquid jetting apparatus of claim 2, further comprising a spare light source other than the light source for irradiating the liquid jetted on the object from the head with light,

wherein the control section judges whether the liquid cure necessary illumination value exceeds an upper limit of the illumination value obtained by irradiation with light radiated from the light source, and when the control section judges that the liquid cure necessary illumination value specified exceeds the upper limit, the control section controls the spare light source to turn on.

6. (Original) The liquid jetting apparatus of claim 2, wherein the liquid cure necessary illumination value rises as a humidity becomes high in the first data table.

7. (Original) The liquid jetting apparatus of claim 2, wherein the liquid cure necessary illumination value corresponds to both a temperature and a humidity in the first data table.

8. (Original) The liquid jetting apparatus of claim 2, wherein the liquid cure necessary illumination value depends upon a type of the liquid in the first data table.

9. (Original) The liquid jetting apparatus of claim 1, the object comprises a recording medium, and the liquid comprises an ink having a color material as a composition.

10-11. (Cancelled)

12. (Currently amended) A liquid jetting apparatus comprising:
a head for jetting a liquid of photo curable type which is cured by an irradiation with light;
a light source for irradiating the liquid of photo curable type jetted on an object from the head;
a humidity sensor for detecting a humidity adjacent to the object; and
a control section for controlling an illumination of light which is radiated from the light source,
wherein the control section controls the illumination on the basis of a result detected by the humidity sensor, the light comprises an ultraviolet ray, and the liquid comprises a cationic polymerization ink containing a cationic polymerizing compound as a composition.